## ON $\delta$ -PRE-CONVERGENT SEQUENCES

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Abstract. In this paper, we define the concept of  $\delta$ -pre-convergent sequence. By using this concept we study sequences and separation axioms.

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Key words.  $\delta$ -pre-convergence, sequentially  $\delta$ -pre-continuity,  $\delta$ -preopen set.

## REFERENCES

- CHATTOPADHYAY, A., Pre-T<sub>0</sub> and pre-T<sub>1</sub> topological spaces, J. Indian Acad. Math., 17 (1995), 156–159.
- [2] EKICI, E., On separation axioms, submitted.
- [3] EKICI, E., (δ-pre,s)-continuous functions, Bulletin of the Malaysian Mathematical Sciences Society, 27 (2004), 237–251.
- [4] EKICI, E., On some separation axioms in topological spaces, submitted.
- [5] KAR, A. and BHATTACHARYYA, P., Some weak separation axioms, Bull. Cal. Math. Soc., 82 (1990), 415–422.
- [6] MAHESHWARI, S. N. and THAKUR, S. S., On α-irresolute mappings, Tamkang J. Math., 11 (1980), 209–214.
- [7] MAKI, H., DEVI, R. and BALACHANDRAN, K., Generalized α-closed sets in topology, Bull. Fukuoka Univ. Ed. Part III, 42 (1993), 13–21.
- [8] MASHHOUR, A. S., EL-MONSEF, M. E. A. and EL-DEEB, S. N., On precontinuous and weak precontinuous mappings, Proc. Phys. Soc. Egypt, 53 (1982), 47–53.
- [9] NJÅSTAD, O., On some classes of nearly open sets, Pacific J. Math., 15 (1965), 961–970.
- [10] RAYCHAUDHURI, S. and MUKHERJEE, N., On δ-almost continuity and δ-preopen sets, Bull. Inst. Math. Acad. Sinica, 21 (1993), 357–366.
- [11] STONE, M. H., Applications of the theory of Boolean rings to general topology, Trans. Amer. Math. Soc., 41 (1937), 375–381.
- [12] WILANSKY, A., Between T<sub>1</sub> and T<sub>2</sub>, Amer. Math. Monthly., **74** (1967), 261–266.
- [13] VELIČKO, N. V., H-closed topological spaces, Amer. Math. Soc. Trans., 78 (1968), 103–118.

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